APPENDIX C
REPAIR PARTS AND SPECIAL TOOLS LISTS (RPSTL)

Section I.   INTRODUCTION

C-1.   SCOPE.

This Repair Parts and Special Tools Lists (RPSTL) lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of Organizational Maintenance of the Precision Gunnery System (PGS). It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the Source, Maintenance and Recoverability (SMR) codes.

C-2.   GENERAL.

In addition to Section I, Introduction, this RPSTL is divided into the following sections:

a.   **Section II, Repair Parts List.** A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed by item name sequence at the end of the section. Repair part kits are listed separately in their own functional group within Section II. Repair parts for reparable special tools are also listed in this section. Items listed are shown on the associated illustration(s)/figure(s).

b.   **Section III, Special Tools List.** A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL [as indicated by Basis of Issue (BOI) information in the DESCRIPTION AND USABLE ON CODE (UOC) column] for the performance of maintenance.

c.   **Section IV, Cross-reference Indexes.** A list, in National Item Identification Number (NIIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National Stock Numbers (NSN) and part numbers are cross-referenced to each illustration/figure and item number appearance. The figure and item number index lists figure and item numbers in alphanumeric sequence and cross-references NSN, Commercial and Government Entity (CAGE) Code (C), and part numbers.

C-3.   EXPLANATION OF COLUMNS (SECTIONS II AND III).

a.   **ITEM NO - Column (1).** Indicates the number used to identify items called out in the illustration.

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b. **SMR CODE - Column (2).** The SMR code is a five-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:

Source Code	Maintenance Code		Recoverability Code
XXxxx	xxXXx		xxxxX
1st two positions	3d position	4th position	5th position
How you get an Item	Who can install replace or use the Item.	Who can do complete repair* on the Item.	Who determines disposition action on an unserviceable Item.

* Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) **Source Code.** The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

<u>Code</u>	<u>Application/Explanation</u>
PA PB PC* PD PE PF PG	Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the third position of the SMR code. *Items coded PC are subject to deterioration.
	. . . .
KD KF KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the third position of the SMR code. The complete kit must be requisitioned and applied.
	. . . .
MO MF MH ML MD	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk materiel which is identified by the part number in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk materiel group of the repair parts list in this RPSTL. If the item is authorized to you by the third position of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.
	. . . .

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AO-	Assembled by UM/AVUM Level	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the third position code of the SMR code authorizes you to replace the items, but the source code indicates that the item is assembled at a higher level, order the item from the higher level of maintenance
AF-	Assembled by DS/AVUM Level	
AH-	Assembled by GS Level	
AG	Assembled SRA	

NOTE

Cannibalization of controlled exchange, when authorized, may be used as a source of supply for items with the following source codes, except for those source coded "XA".

__Code__	__Application/Explanation__
XA.	DO NOT requisition an "XA"-coded item. Order its next higher assembly.
XB.	In an "XB" item is not available from salvage, order it using the CAGE and part number given.
XC.	Installation drawing, diagram, instruction sheet or field service drawing that is identified by manufacturer's part number.
XD.	Item is not stocked. Order an "XD"-coded item through normal supply channels using the CAGE and part number given, if no NSN is available.

(2) **Maintenance Code.** Maintenance codes tell you the level(s) of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following levels of maintenance.

__Code__	__Application/Explanation__
C.	Operator or Crew Maintenance done within Organizational Maintenance or aviation unit maintenance.
O.	Organizational Maintenance or aviation unit can remove, replace, and use the item.
F	Direct Support Maintenance or aviation intermediate maintenance can remove, replace, and use the item.
H.	General Support Maintenance can remove, replace, and use the item.
L	Specialized Repair Activity (SRA) can remove, replace, and use the item.
D.	Depot Maintenance can remove, replace, and use the item.

C-3. EXPLANATION OF COLUMNS (SECTIONS II AND III) (Con't).

NOTE

Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

(b)   The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized "Repair" functions). The maintenance code in the fourth position will indicate authorization to one of the following levels of maintenance:

Code	**Application/Explanation**
O...............	Organizational Maintenance or aviation unit maintenance is the lowest level that can do complete repair of the item.
F...............	Direct Support Maintenance or aviation intermediate maintenance is the lowest level that can do complete repair of the item.
H...............	General Support Maintenance is the lowest level that can do complete repair of the item.
L...............	Specialized Repair Activity (SRA) is the lowest level that can do complete repair of the item.
D...............	Depot Maintenance is the lowest level that can do complete repair of the item.
Z...............	Nonreparable. No repair is authorized.
B...............	No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B"-coded item.) However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

(3)   **Recoverability Code.** Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR code as follows:

Code	**Application/Explanation**
Z...............	Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code.
O...............	Reparable item. When uneconomically reparable, condemn and dispose of the item at Organizational Maintenance or aviation unit maintenance.
F...............	Reparable item. When uneconomically reparable, condemn and dispose of the item at Direct Support Maintenance or aviation intermediate maintenance.
H...............	Reparable item. When uneconomically reparable, condemn and dispose of the item at General Support Maintenance.

C-3   EXPLANATION OF COLUMNS (SECTIONS II AND III) (Con't).

Code	Application/Explanation
D	Reparable item. When beyond lower level repair capability, return to Depot Maintenance. Condemnation and disposal of item not authorized below Depot Maintenance.
L	Reparable item. Condemnation and disposal of item not authorized below Specialized Repair Activity (SRA).
A	Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c.   **CAGE - Column (3).** The Commercial and Government Entity (CAGE) Code (C) is a five-digit alphanumeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different part number from the part ordered.

d.   **PART NUMBER - Column (4).** Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

e.   **DESCRIPTION AND USABLE ON CODE (UOC) - Column (5).** This column includes the following information:

(1)   The Federal item name and, when required, a minimum description to identify the item.

(2)   Physical security classification. Not applicable.

(3)   Items that are included in kits and sets are listed below the name of the kit or set.

(4)   Spare/repair part that make up an assembled item are listed immediately following the assembled item line entry.

(5)   Part numbers for bulk materiels are referenced in this column in the line item entry for the item to be manufactured/fabricated.

(6)   When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC). Not Applicable.

(7)   The Usable On Code, when applicable (see paragraph C-5, Special Information).

(8)   In the Special Tools List section, the Basis of Issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the Basis of Issue, the total authorization is increased proportionately.

(9)   The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III.

f.   **QTY - Column (6).** The QTY (quantity per figure) column indicates the quantity of the item used in the breakout shown on the illustration/figure, which is prepared for a functional, subfunctional group, group or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

C-4. EXPLANATION OF COLUMNS (SECTION IV).

    a.   **National Stock Number (NSN) Index.**

        (1)   **STOCK NUMBER Column.** This column lists the NSN by National Item Identification Number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN (i.e., NSN 5305-01-674-1467). When using this column to locate an item, ignore the first four digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

        (2)   **FIG. Column.** This column lists the number of the figure where the item is identified/ located. The figures are in numerical order in Section II and Section III.

        (3)   **ITEM Column.** The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

    b.   **Part Number Index.** Part Numbers in this index are listed by part number in ascending alphanumeric sequence (i.e., vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

        (1)   **CAGEC Column.** The Commercial and Government Entity (CAGE) Code (C) is a five-digit alphanumeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

        (2)   **PART NUMBER Column.** Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity) which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

        (3)   **STOCK NUMBER Column.** This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and CAGE columns to the left.

        (4)   **FIG. Column.** This column lists the number of the figure where the item is identified/ located in Section II and Section III.

        (5)   **ITEM Column.** The item number assigned to the item as it appears in the figure referenced in the FIG. column.

    c.   **Figure and Item Number Index.**

        (1)   **FIG. Column.** This column lists the number of the figure where the item is identified/ located in Section II and Section III.

        (2)   **ITEM Column.** The item number assigned to the item as it appears in the figure referenced in the FIG. column.

        (3)   **STOCK NUMBER Column.** This column lists the NSN for the item.

        (4)   **CAGEC Column.** The Commercial and Government Entity (CAGE) Code (C) is a five-digit alphanumeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

        (5)   **PART NUMBER Column.** Indicates the primary number used by the manufacturer (individual, firm, corporation or Government activity) which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

C-5.   SPECIAL INFORMATION.

a.   <u>Usable On Code.</u> The Usable On Code appears in the lower left corner of the DESCRIPTION column heading. Not applicable.

b.   <u>Fabrication Instructions.</u> Bulk materiels required to manufacture items are listed in the Bulk Materiel functional group of this RPSTL. Not applicable.

c.   <u>Assembly Instructions.</u> Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in Chapter 4. Items that make up the assembly are listed immediately following the assembly item entry or reference is made to an applicable figure.

d.   <u>Kits</u>. Line item entries for repair kits appear in Group 9401 in Section II. Not Applicable.

e.   <u>Index Numbers.</u> Items which have the word BULK in the FIG. column will have an index number shown in the item column. This index number is a cross-reference between the National Stock Number Index, the Part Number Index, and the bulk materiel list in Section II.

C-6.   HOW TO LOCATE REPAIR PARTS.

a.   <u>When National Stock Number or Part Number is Not Known:</u>

(1)   **First.** Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2)   **Second.** Find the figure covering the assembly group or subassembly group to which the item belongs.

(3)   **Third.** Identify the item on the figure and use the Figure and Item Number Index to find the NSN.

b.   <u>When National Stock Number or Part Number is Known:</u>

(1)   **First.** Using the National Stock Number Index or Part Number Index, find the pertinent NSN or part number. The NSN Index is in National Item Identification Number (NIIN) sequence [see paragraph C-4.a(1)]. The part numbers in the Part Number Index are listed in ascending alphanumeric sequence (see paragraph C-4.b). Both indexes cross-reference you to the illustration/figure and item number of the item you are looking for.

(2)   **Second.** Turn to the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

C-7.   ABBREVIATIONS.

For standard abbreviations see MIL-STD-12D, Military Standard Abbreviations for Use on Drawings, Specifications, Standards, and in Technical Documents.

<u>Abbreviations</u>	<u>Explanation</u>
L/F	Left-front
L/R	Left-rear
NIIN	National Item Identification Number (consists of the last 9 digits of the NSN)
PGS	Precision Gunnery System
RDU	Retro Detector Unit
R/F	Right-front

C-7.   ABBREVIATIONS (Con't).

Abbreviations	Explanation
RPSTL	Repair Parts and Special Tools Lists
R/R	Right-rear
TBOS	Tracer, Burst, Obscuration Simulator
TCU	Target Computer Unit
TDRS	Training Data Retrieval System
TGT	Target

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